

Title (en)  
PULSE WIDTH MODULATION FAN

Title (de)  
PULSBREITENMODULATIONSGEBLÄSE

Title (fr)  
VENTILATEUR À MODULATION DE LARGEUR D'IMPULSION

Publication  
**EP 3627692 A1 20200325 (EN)**

Application  
**EP 19198357 A 20190919**

Priority  
US 201816135307 A 20180919

Abstract (en)  
An apparatus can include a fan including a control pin. The fan may receive a pulse width modulated (PWM) signal at the control pin. The fan may further control a speed of the fan based on a duty cycle of the PWM signal when the PWM signal is in a first range and, responsive to the duty cycle of the PWM signal being in a second range, transmit information corresponding to the fan to an external controller.

IPC 8 full level  
**H02P 29/20** (2016.01); **H02P 29/02** (2016.01); **G06F 1/22** (2006.01)

CPC (source: CN EP US)  
**F04D 27/001** (2013.01 - CN); **F04D 27/004** (2013.01 - CN); **G05B 11/28** (2013.01 - US); **G05B 23/0218** (2013.01 - US); **G06F 1/20** (2013.01 - CN EP US); **G06F 1/206** (2013.01 - EP); **G06F 11/3058** (2013.01 - US); **H02P 29/02** (2013.01 - EP); **H02P 29/20** (2016.02 - EP); **H03K 5/06** (2013.01 - CN); **G06F 11/3003** (2013.01 - US); **H02P 2209/09** (2013.01 - EP)

Citation (search report)

- [X] US 7141950 B1 20061128 - VERGE GREG [US]
- [X] KR 20090095878 A 20090910 - SEEPEL CO LTD [KR]
- [A] JP 2005080417 A 20050324 - CALSONIC KANSEI CORP
- [A] US 2004001542 A1 20040101 - MILLER WAYNE A [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3627692 A1 20200325**; CN 110925230 A 20200327; US 11402882 B2 20220802; US 2020089290 A1 20200319; US 2022326745 A1 20221013

DOCDB simple family (application)  
**EP 19198357 A 20190919**; CN 201910885865 A 20190919; US 201816135307 A 20180919; US 202217810021 A 20220630